

POSTNIKOV, A.N. (Leningrad, ul. Lomonosova, d.20, kv.54)

Comparative evaluation of various types of local anesthesia
and of ether anesthesia in repositing long bone fractures.
Vest.khir. 82 no.4:103-106 Ap '59. (MIRA 12:6)

1. Iz khirurgicheskogo otdeleniya (zav. - kandidat meditsin-
skikh nauk K.Z.Danovich) bol'nitsy im. Volodarskogo gor.
Leningrada.

(LOCAL ANESTHESIA) (FRACTURES)

POSTNIKOV, A.P.

PICHUGIN, Aleksey Vasil'yevich, dotsent; DUNAYEV, Boris Konstantinovich, inzhener; ISAYEV, Aleksandr Nikolayevich, inzhener; MITSKEVICH, Konstantin Mikhaylovich, inzhener; POSTNIKOV, Aleksandr Pavlovich, inzhener; IL'INSKIY, L.L., redaktor; SHABLINSKIY, V.V., redaktor; LARIONOV, G.Ye., tekhnicheskii redaktor

[Peat beds and prospecting for them] Torfiane mestorozhdeniia i ikh razvedka. Izd. 2-oe, perer. Moskva, Gos. energ. izd-vo, 1956. 280 p.
(Peat) (MLRA 9:12)

PETRUNIN, A.M.; LOKTIONOVA, N.A.; AL'TMAN, M.B., rukovoditel' raboty;
Prinimali uchastiye: LOZHICHEVSKIY, A.S.; SHKROB, V.A.; POSTNIKOV,
A.S.; ARBUZOV, B.A.; PANTYUSHKOVA, N.S.; POBOCHINA, T.V.;
PATRUSHEV, L.M.

Mastering the production of large Al8 alloy castings. Alium.
splavy no.1:150-159 '63. (MIRA 16:11)

POSTNIKOV, A.V. (Pskov)

Demonstration of the movement of ions and electrolysis. Khim. v
shkole 16 no.2:62-63 Mr-Apr '61. (MIRA 14:6)
(Ions--Migration and velocity)
(Electrolysis)

PETERBURGSKIY, A.V., doktor sel'skokhoz. nauk, prof.; POSTNIKOV, A.V.,
aspirant

Solid and liquid compound fertilizers, their investigation and
possible use in the U.S.S.R. [with summary in English]. Izv. TSKHA
no.3:103-121 '63. (MIRA 16:9)
(Fertilizers and manures)

POSTNIKOV, A.V.

At what height should we install demonstration apparatus? Khim.
v shkole 17 no.1:88-89 Ja-F '62. (MIRA 15:1)

1. Institut usovershenstvovaniya uchiteley, Pskov.
(Laboratories--Apparatus and supplies)

POSTNIKOV, A.V. (Pskov)

Vessel with flat parallel walls and the experiments with it. Fiz. v
shkole 22 no.1:63-65 Ja-F '62. (MIRA 15:3)
(Physical laboratories---Apparatus and supplies)
(Physics---Study and teaching)

PETERBURGSKIY, Aleksandr Vasil'yevich, doktor sel'khoz. nauk, prof.;
POSTNIKOV, Anatoliy Vasil'yevich, agrokhimik; VISHNYAKOVA Ye.,
red.; KUZNETSOVA, A., tekhn. red.

[New effective fertilizers] Novye effektivnye udobreniia.
Moskva, Mosk. rabochii, 1963. 55 p. (MIRA 16:7)
(Fertilizers and manures)

PETER BURGSKIY, A.V., prof., doktor sel'skokhoz. nauk; POSTNIKOV, A.V.
assistant

Agricultural and economic advantages of complete mineral
fertilizers. Izv. TSKHA no.1:21-33 '64. (MIRA 17:4)

1. Kafedra agrokhimii i biokhimii Moskovskoy ordena Lenina
sel'skokhozyaystvennoy akademii imeni Timiryazeva.

POSTNIKOV, B.

Reed panels. Prom.koop. no.10:31 0 '57.

(MIRA 10:12)

1.Zamestitel' predsedatelya pravleniya oblpromsoveta, Astrakhan'.
(Reed (Botany))

BOGOMOLOV, S. P., inzh. (Leningrad); POSTNIKOV, B. A., inzh.
(Leningrad)

New machine for concreting irrigation canals. Gidr. i mel.
15 no.3:39-44 Mr '63. (MIRA 16:4)

(Irrigation canals and flumes)

POSTNIKOV, B.N.

Pet' Georgievich Kornev; on his 80th birthday. Ortop., traum. i
protez. 25 no.1:94 Ja '64. (MIRA 17:9)

POSTNIKOV. B. N.

Mbr., Leningrad Sci. Res. Inst. First Aid, -cl949-.

"Methods for Measuring the Burn Area on Adults," Khirurgiya, No. 4, 1949;

"Shock Due to Burns and Methods for Treating It," ibid.

POSTNIKOV, B.N.

27378. POSTNIKOV, B. N. Ozhogi I Ikh obshcheye deystviye na organizm. Klinich meditsina, 1949, No. 8, s. 16-29-Bibliogr: s. 29

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

POSTNIKOV, B. N.; SHAPLYGIN, P. Ya.

Russian dermatome and its practical use. Khirurgia, Moskva
no.10:85-87 Oct. 1950. (CLML 20:1)

1. Of Leningrad Scientific-Research Institute of First Aid
(Director -- A. R. Grushkin; Scientific Supervisor -- Prof. Yu.
Yu. Dzhanelidze, deceased) and of Krasnogvardeyets State Union
Order of Lenin Medical Instrument Factory (Director -- G. S.
Budagov).

POSTNIKOV, B. N.

Mbr., Leningrad scientific research institute for first aid

"Left side appendicitis with transposition of the viscera," Vest. khir. 72 no. 4 J1-Ag 1952

1. POSTNIKOV, B. N.
2. USSR (600)
4. Burns and Scalds
7. Attempts to save the life of patients suffering from extensive burns. Vest. khir.
72 no.6. 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

POSTNIKOV, B. M.

USSR/Medicine - Therapy, Burns

Feb 53

"Significance of a High-Calorie Protein Diet in the Treatment of Patients Suffering From Severe Burns," Yu. M. Geftter, G. F. Miyushkevich, B. M. Postnikov, A. Ya. Shit, Leningrad Sci Res Inst of First Aid

Khirurg, No 2, pp 25-30

Daily observations of patients with severe burns of large areas of their bodies leaves no doubt that recovery is largely due to the high-calorie protein diet. Loss of protein of the blood is very marked in patients with severe burns. Biochemical examination reveals that between 4% and 5% of the contents of blisters is protein. Normally, protein constitutes 6% to 7% of the whole blood. A single blood transfusion of one liter of blood per day not sufficient to replenish the daily loss of blood protein; the deficit must be supplemented by proper diet rich in protein.

PA 255T21

POSTNIKOV S. B. N.

USSR/Medicine - Burns Oct 53

"Review of B.N. Postnikov's 'A Modern Treatment of Burns,' [Sovremennoye Lecheniye Termicheskikh Ozhogov] Acad of Med Sci USSR, Moscow 1952, 105 pp" (S.D. Vilyavin, reviewer)

Khirurg, No 10, pp 90-93

The reviewer notes the reputation and personal experience of the author, who is Head of the Specialized Dept for Treatment of Burns, Leningrad Scientific Inst of Emerg Aid im Yu Dzhanelidze. Notes the decrease in mortality rate from burns treated at this Inst. Lauds the presentation of an effective method of treating burns by hemotransfusion, 273T45

the novocain block of A.V. Vishnevskiy, and drug-induced sleep. Disagrees with some proposed methods of treatment. On the whole, highly recommends the book as a practical textbook for Soviet surgeons.

273T45

POSTNIKOV, B.N., professor

70th anniversary of Petr Georgievich Kornev. Vest. khir. 74 no.6:
94-95 S '54.

(KORNEV, PETR GEORGEVICH, 1883-)

(MLRA 7:10)

POSTNIKOV, B. N., SHIT, A. Ya., GEFTER, Yu.M. and MILYUSHKEVICH, G.F.

"Role of a higher protein diet in the treatment of patient with severe burns",
Khirurgiya, No 2, pp 25-30, 1955.

SO: Translation-M-675, 27 Jul 1955.

KOVALENKO, D.G., prof.; POSTNIKOV, B.N., prof.

75th birthday of P.G. Kornev. Vest.khir. 82 no.3:159-160 Mr '59.
(MIRA 12:4)

1. Leningradskiy institut khirurgicheskogo tuberkuleza i kostno-sustavnykh zabolevaniy (for Kovalenko). 2. Gosudarstvennyy institut usovershenstvovaniya vrachey (for Postnikov).

(BIOGRAPHIES,

Kornev, P.G. (Rus))

ABRAKOV, L.V., kand. med. nauk; BLINOV, N.I., prof.; GADZHIYEV, S.A.,
prof.; GODUNOV, S.F., prof.; ZVORYKIN, I.A., prof.; ZEBOL'D,
A.N., prof.; KOROTKEVICH, N.S., dots.; MARLEY, Ye.P.; MASLOV,
S.I., kand. med. nauk; NADEIN, A.P., prof.; POSTNIKOV, B.N.,
prof.; ROZOV, V.I., prof.[deceased]; UGRYUMOV, V.M., prof.;
KHROMOV, B.M., prof.; UDERMAN, Nikolay Il'ich, red.; KHARASH,
G.A., tekhn. red.

[Manual on surgical interventions for surgeons of rural sec-
tional and district hospitals] Rukovodstvo po operativnym vme-
shatel'stvam dlia khirurgov sel'skikh uchastkovykh i raionnykh
bol'nits. Izd.2., ispr. i dop. Leningrad, Medgiz, 1963. 390 p.
(MIRA 16:7)

(SURGERY—HANDBOOKS, MANUALS, ETC.)

POSTNIKOV, B.N., prof. (Leningrad)

Clinical aspects and treatment of bone and joint tuberculosis.
Med. sestra 19 no.9:14-25 S '60. (MIRA 13:9)
(BONES—TUBERCULOSIS)

POSTNIKOV, B.N., prof. (Leningrad)

~~"Problems in tuberculosis"~~ ed. I.M.Veksler [doktor med.nauk]. Reviewed
by B.N.Postnikov. Ortop., travm. protez. 19 no.1:79-81 Ja~~h~~ '58.
(TUBERCULOSIS) (MIRA 11:4)

POSTNIKOV, B.M.

[Heat burns] Termicheskie ozhogi. [Leningrad] Medgiz, 1957.
(MIRA 11:4)

235 p.

(BURNS AND SCALDS)

POSTNIKOV, B. N.

27378

Ozhogi i ikh obshcheye deystviye na organi. klinich myeditsina, 1949, No. 8
s. 16-29- Bibliogr: s. 29

SO: LETOPIS' NO. 40

POSTNIKOV, D.

New physical culture complex. Kryl.rod. 10 no.3:12 Mr '59.
(MIRA 12:4)

1. Chlen prezidiuma Tsentral'nogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu SSSR.
(Physical fitness)

POSTNIKOV, D.V.

Lithology and formation of the Devonian terrigenous series in western Bashkiria. Geol. nefti i gaza 5 no.4:16-21 Ap '61. (MIRA 14:4)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.
(Bashkiria--Sediments (Geology))

POSTNIKOV, D.V.

Lithology and petroleum prospects of Zifelian sediments in Bashkiria.
Geol. nefti i gaza 9 no.9:15-19 S '65. (MIRA 18:9)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.

KOMAROV, V.I.; POVINIKOV, D.V.

Effect of geological age and depth of occurrence on the
reservoir properties of arenaceous rocks. Dokl. AN SSSR.
159 no.1:106-108. N 164. (MIRA 17:12)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.
Predstavleno akademikom N.M. Strakhovym.

POSTNIKOV, D.V.; ADLER, M.G.

Conditions governing the sedimentation in the terrigenous
Devonian formation in the Bashkirian arch and in its border
sections in the Bashkirian A.S.S.R. Neftegaz. geol. i geofiz.
no. 5:27-31 '63. (MIRA 17:5)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.

NADEZHKIN, A.D.; POSTNIKOV, D.V.

Deformations of rocks of the terrigenous stratum of the Lower Carboniferous produced at the time of sedimentation in the north-west of the Bashkir A.S.S.R. Dokl.AN SSSR 145 no.4:885-886 Ag '62. (MIRA 15:7)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.
Predstavleno akademikom N.M.Strakhovym.
(Bashkiria--Geology, Stratigraphic)

MOROZOV, S.G.; POSTNIKOV, D.V.

Contact phenomena and magmatic differentiation in
gabbro-diabase intrusives among Pre-Devonian deposits
of western Bashkiria. Dokl. AN SSSR 147 no.2:445-447
N '62'. (MIRA 15:11)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.
Predstavleno akademikom D.S. Korzhinskim.
(Bashkiria--Gabbro)
(Bashkiria--Diabase) (Metamorphism (Geology))

NADEZHKIN, A.D.; POSTNIKOV, D.V.

Facies interrelationship in Tula horizon deposits of western
Bashkiria. lit. i pol. iskop. no. 2: 300-302 '63. (MIRA 17:10)

1. Ufimskiy nauchno-issledovatel'skiy neftyanoy institut, Ufa.

MOROZOV, S.G.; POSTNIKOV, D.V.; IVANOVA, V.V.

Problematic organic remains from the Bavlly sediments of western
Bashkiria. Paleont. zhur. no.4:119-121 '64. (MIRA 18:3)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.

POSTNIKOV, D.V.

Method of dividing Wulff grid into categories in the treatment of
structural diagrams. Zap.Vses.min.ob-va 83 no.3:285-287 '54.
(Petrology) (MLBA 7:11)

Pos Tnikov, D.V.

SON/2938

PHASE I BOOK EXPLANATION

3(4)

Adamskiy nauch. SSSR, Bashkirskiy filial. Gorno-geologicheskii institut
Voprosy geologii i neftepromyshlennosti Bashkirskiy otlozhennyi Zapadnoy Bashkirii i
mezimaykh oblastey materialy nauchnoy sessii, (Sedimenty i neftnyye resursy
i Oily-Bearing Possibilities of the Sediments of Western Bashkiria and
- Bashkiria and Adjacent Regions, factors at a Scientific Session...) Ufa,
1958. 139 p. 750 copies printed.
Ed.: V. V. Sidorov, Tech. Ed.: I. G. Shafin; Editorial Board: S. M. Krause
(Resp. Ed.), N. P. Mityukov, I. S. Ogurtsov, A. I. Ollil, L. M. Rozanov,
K. R. Tibergegin, and A. P. Tyazhba.

PURPOSE: The book is intended for petroleum geologists.

COVERAGE: This book contains papers on the petroleum geology of Bashkiria.
These papers were originally read at a conference held in Ufa on December
23-25, 1957. Individual reports discuss the stratigraphy, the geology,
chemistry, tectonic structure, and oil-bearing capacities of the Devonian
sediments in Bashkiria and adjacent regions. No references are given.

Tegurova, L. Z. Stratigraphy of the Devonian Sediments of the Kuybyshevskaya
and Kremenskaya Oblasts 41

Chubrikova, Ya. K. Results of Spore-Fallen Analysis of the Oils and Oil
Waters of Bashkiria 51

Kalivkin, D. V. Ashizakiye and Ravinskkiye Series 57

Garris, M. A. Formation Conditions of Eifellian, Clivian, and Lower Frasnian
Sediments of Western Bashkiria 61

Postnikov, D. V. Lithology, Reservoir Rocks, and Oil-bearing Potential of
the Permian Devonian Beds in the Saltykovo-Shapovalovskiy Region 73

Krause, S. M. Formation Conditions of Variegated Middle Devonian Series on
the Western Flank of the Southern Urals 77

Maslov, V. A. Lithology and Facies Characteristics of the Upper Devonian
Carbonate Deposits on the Western Flank of the Southern Urals 83

Teodorovich, G. L. and B. Ya. Polozhskiy. Study of the Mineralogy and
Conditions of Sedimentation of Probable Petrofiferous Devonian Beds
in Various Regions of Western Bashkiria 89

Rozanov, V. L. Tectonics of Devonian Sediments and Its Relationship With
the Tectonics of Overlying and Underlying Beds 97

Ollil, A. I. and V. A. Rozanov. Tectonics of Bashkiria at the Beginning of
the Middle Devonian 109

Kovshilova, S. I. Tectonic Structure of the Devonian Sediments in the
Kuybyshevskaya and Kremenskaya Oblasts 111

Sachenko, G. S. Morphology of the Folds in the Zone Adjacent to the Marginal
Downlap of the Zilairskiy Synclinal in Relation to the Estimates of
Oil-producing Capacity of the Devonian and Other Sediments in Southern
Bashkiria 119

Kamenskikh, M. A. Prospects of Oil Production from the Devonian Sediments
of the Western Flank of the Southern Urals 123

AVAILABLE: Library of Congress (TR874.F91567)

Card 4/4

MM/Jul
12-21-59

45

POSTNIKOV, D. V.: Master Geolog-Mineralog Sci (diss) -- "The lithology of the Devonian terrigenous formation of southwestern Bashkiria (Bolebeyevsko-Shkapovskiy Rayon)". Ufa, 1958. 13 pp (Kazan' Order of Labor Red Banner State Univ. I. Ul'yanov-Lenin, Ufa Petroleum Sci Res Inst UFNII), 200 copies (KL, No 18, 1959, 122)

POSTNIKOV, D.V.

Lithology and genesis of the Devonian terrigenous formation in
the Belobey-Shkapovo area. Trudy UfNII no.4:3-29 '59.

(MIRA 12:8)

(Bashkiria--Petroleum geology)

15-57-3-3510

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,
p 149 (USSR)

AUTHORS: Troyepol'skiy, V. I., Postnikov, D. V.

TITLE: The Problem of the Structure and Availability of Pore
Space in Carbonate Reservoir Rocks (K voprosu o struk-
ture i pronitsayemosti porovogo prostranstva karbon-
atnykh kollektorakh)

PERIODICAL: Uch. zap. Kazansk, un-ta, 1956, Vol 115, Nr 16,
pp 219-223.

ABSTRACT: It is impossible to describe the permeability of
carbonate reservoir rocks by studying occasional sec-
tions of pore spaces, nor can the permeability be
related by definite formulas to the porosity or size
of the pores. Even a small number of cracks sharply
alters the seepage properties of a rock.

Card 1/1

no initials

POSTNIKOV, D.V.

TROYEPOL'SKIY, V.I.; POSTNIKOV, D.V.

Structure and permeability of pore space in carbonate rocks.

Uch.zap.Kaz.un. 115 no.16:219-223 '56.

(MLRA 10:3)

1. Kafedra geologii nefti.

(Porosity) (Carbonates (Mineralogy))

KOMAROV, V.L.; POSTNIKOV, D.V.

Decisive influence of the conditions of sediment accumulation on
the reservoir properties of sandy rocks. Dokl. AN SSSR 140
no.4:925-927 0 '61. (MIRA 14:9)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.
Predstavleno akademikom N.M.Strakhovym.
(Volga-Ural region--Petroleum geology)

SEMENOVA, S.N.; POSTNIKOV, F.A., spets. red.; SOLOVEY, I., tekhn.
red.

[Learn dressmaking; fundamentals of garment cutting and sewing] Uchites' shit'; osnovy kroiki i shit'ia. Moskva, Reklamno-izdatel'skaia fabrika Upr. gor. oformleniia i reklamy Mosgorispolkoma, 1962. 61 p.

(MIRA 15:9)

(Dressmaking)

POSTNIKOV, G.A.; GUSAROV, A.S.

Automatic drop lip of aprons on horizontal copper converters.
TSvet.met. 33 no.1:85 Ja '60. (MIRA 13:5)

1. Sredneural'skiy medeplavil'nyy zavod.
(Converters)

POSLAVSKIY, A.N.; POSTNIKOV, G.B.; SAMARIN, Ye.G.

Wintering places of birds in the northern Caspian Sea region
and Mangyshlak Peninsula. Trudy Inst. zool. AN Kazakh. SSR
24:157-180 '64. (MIRA 17:12)

L 06509-67 EWT(m)/EWP(j) RM
ACC NR: AP/000483

SOURCE CODE: UR/0079/66/036/006/1129/1133

POSTNIKOVA, G. B., KOSTYUK, A. S., LUTSENKO, I. F., Moscow State University
im. Lomonosov (Moskovskiy gosudarstvennyy universitet)

"Beta-phosphinylated Vinyl Esters of Carboxylic Acids" 1

21
B

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 6, 1966, pp 1129-1133

Abstract: A method was developed for synthesizing chlorides and esters of beta-acyloxyvinylphosphinic acids. Chlorides of beta-acyloxy-beta-chloroethylphosphinous acids were prepared by reduction of adducts of phosphorus pentachloride to vinyl esters of carboxylic acids with white phosphorus. Esterification of these chlorides with alcohol in the presence of a base yielded complete esters of beta-acyloxy-beta-chloroethylphosphinous acids. Derivatives of beta-acyloxyvinylphosphinous acids could not be obtained from the esters; however, dehydrochlorination of chlorides of beta-acetoxy-beta-chloroethylphosphinous acids proceeded readily to chlorides of beta-acyloxyvinylphosphinous acids, in 70-90% yields. Esterification of these chlorides with alcohol in the presence of pyridine yielded complete esters of beta-acyloxyvinylphosphinous acids. Orig. art. has: 2 figures and 1 table. [JPRS: 37,023]

TOPIC TAGS: vinyl compound, phosphorus chloride, ester
SUB CODE: 07 / SUBM DATE: 25Jan65 / ORIG REF: 003

Card 1/1 LS

UDC: 547.341

C923

1197

POSTNIKOV, G. M.

Horse Breeding

Introduction of artificial insemination for the development of herds of horses, Konevodstvo
No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952 ~~1952~~, Uncl.

POSTNIKOV, I.

Training of teachers. Za rul. 17 no.6:6-7 Je '59.

(MIRA 12:10)

1. Nachal'nik avtomotokluba Dobrovol'nogo obshchestva sodeystviya
armii, aviatsii i flotu, Tula.

(Tula--Automobile drivers)

POSTNIKOV, I.M., doktor tekhn.nauk; ADAMENKO, A.I., kand.tekhn.nauk;
KISLENKO, V.I.

Transformer-condenser phase converter. Energ. i elektrotekh.
prom. no.1:34-43 '62. (MIRA 15:6)

1. Institut elektrotehniki AN USSR.
(Phase converters)

POSTNIKOV, I. M., Prof.

PA 196T29

USSR/Electricity - Motors, Synchronous Aug 51
Hunting

"The Electromagnetic Torque of a Synchronous Machine for Small Pulsations Under Rectifying Loads", Prof I. M. Postnikov, Dr Tech Sci, A. I. Vazhnev, Cand Tech Sci, Leningrad Polytech Inst Imeni Kalinin

"Elektrichestvo" no 8, pp 47-53

Gives expressions for the coeffs of the synchronizing and damping torques of a synchronous machine for small pulsations of the rotor. Results correspond to the case where

196T29

USSR/Electricity - Motors, Synchronous Aug 51
(Contd)

there are 2 windings, damper and exciting, along the longitudinal axis and a damper winding only along the transverse axis. Submitted 27 Nov 50.

196T29

POSTNIKOV, I. M., Prof

USSR/Electricity - Machines, Electric Nov 51

"A Universal Machine Constant," Prof I. M. Postnikov, Kiev Polytech Inst

"Elektrichestvo" No 11, pp 11-18

Shows that a certain universal machine const for the stator and rotor exists for all elec machines. The const can be easily detd in each case from the optimum relationships of the basic coeffs, cd in the winding, and av induction in the slots. Gives examples of the calcn

201756

USSR/Electricity - Machines, Electric Nov 51
(Contd)

of the const for various machines, tabulates values, and establishes the relationship of the universal const to generally known consts. Submitted 2 Mar 51.

201756

POSTNIKOV, I.M.; KOSTENKO, D., redaktor; BARATOV, E., redaktor;
GOLOVCHENKO, G., tekhnicheskii redaktor

[Designing electric machinery] Proektirovanie elektricheskikh
mashin. Kiev, Gos. izd-vo tekhnicheskoi lit-ry USSR, 1952. 736 p.
(MLRA 7:8)

(Electric machinery--Design and construction)

POLYAK, N. A., POSTNIKOV., PROF., I. M.

Electric Machinery

Remarks on I. M. Postnikov's article "Universal machine constant." Elektrichestvo
No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, November, 1952. Unclassified.

POSTNIKOV, I. M.

235T36

USSR/Electricity - Electrical Machines Aug 52

"Determination of Economical Sizes of Electrical Machines," Prof I. M. Postnikov, Kiev Polytech Inst

"Elektrichestvo" No 8, pp 3-8

Presents a method for detg the economical sizes of elec machines on the basis of the assigned elec parameters. Introduces the concept of the true cost of elec machines. Determines economical cd and efficiency. Submitted 22 Oct 51.

235T36

POSTNIKOV, I. M.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001342620011-1"

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 17/34

Author : Postnikov, I. M., Prof., Kiyev

Title : Terminology of Theoretical Electrical Engineering.
(Discussion)

Periodical : Elektrichestvo, 7, 81, J1 1954

Abstract : See Elektrichestvo, Nos. 1, 9, 10, 11, 12, 1953;
Nos. 2, 3, 5, 1954.
Certain definitions proposed in the above named publica-
tion and submitted for discussion are criticized.

Institution : Kiyev Polytechnic Institute

Submitted : No date

POSTNIKOV, I. M.

AID P - 4119

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 6/33

Authors : Postnikov, I. M., Doc. Tech. Sci., Prof., and A. I. Adamenko, Eng.

Title : Parameters of the equivalent circuit and exact circle diagram of a polyphase induction motor.

Periodical : Elektrichestvo, 12, 25-28, D 1955

Abstract : The authors build a circle diagram of an induction motor with constant characteristics using an equivalent circuit diagram. Methods usually applied for the establishment of the characteristics of the secondary circuit are often not accurate. The authors establish an accurate method to determine series impedance and present a simple method of building the circle diagram of the magnetizing current. The diameter of this circle is equal to the diameter of the primary current multiplied by the ratio of moduli of impedance of the

POSTNIKOV, I. M.

"Selection of Optimum Proportions in Electric Machinery," Gos. energ. izdatel',
Leningrad-Moscow, 1952

Translation of pp. 1-13, 563715

Postnikov, I.M.
POSTNIKOV, I.M., doktor tekhn. nauk; ADAMENKO, A.I., inzh.

Special considerations in designing single-phase asynchronous
motors. Vest. elektroprom. 28 no.10:28-35 0 '57. (MIRA 10:12)

1. Institut elektrotekhniki AN USSR.
(Electric motors, Induction)

105-58-3-1/31

AUTHOR: Postnikov, I. M., Doctor of Technical Sciences, Professor

TITLE: A Method for the Calculation of the Operation Modes of Sub-Synchronous Motors With Compound Excitation (Metod rascheta rezhimov kompaundirovannykh sinkhronnykh dvigateley)

PERIODICAL: Elektrichestvo, 1958, Nr 3, pp. 1 - 9 (USSR)

ABSTRACT: The excitation of synchronous motors from the power supply over semiconductor rectifiers was used in the USSR for the first time according to the ~~DAC~~ -scheme (Ref 5). In 1954 an excitation scheme with rectifiers which were fed by current transformers was suggested by V. L. Inosov (Ref 2). The checking of the experimental types of synchronous ~~salient~~ pole machines showed satisfying results: high overload capacity, stability of the $\cos \varphi$. V. L. Inosov and V. Ye. Krutikova gave a method for the computation of the overload capacity and stability of these motors, as well as a method for the computation of the rectifier equipment. Simultaneously in 1954 ~~induction~~ motors synchronized according to this scheme were investigated and computations

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105-58-3-1/31

A Method for the Calculation of the Operation Modes of Subsynchronous Motors With Compound Excitation

of the synchronized motors were carried out on the basis of the AK-series according to a method different from that of Inosov. Here the method for the computation of the **SDK** (synchronous motors with salient poles) and of the **ASDK** (synchronized ~~reduction~~ motors with compound excitation) motors is given. First the wrong results in the computation of overload capacity and the motor characteristic obtained by Inosov-Krutikova are pointed out. It is shown that in the computation of induction -(**ASDK** -type), as well as in the case of synchronous-(**CD K**-type)-motors it is expedient to neglect the influence of the saturation on the motor parameters. The saturation can be taken into account by means of the Potier diagram and a series of auxiliary control characteristics. The computation mode of the operation modes of the motor is shown. The dynamic and static stability is then investigated and it is pointed out that the smoothing moment of the damping circles is not taken into account in the computations of Inosov (Ref 7). In the next chapter the starting of the **motor** and the pull in step are investigated. The experiments and the computations given here show that the motor can be synchronized even in the case of initial slip (which may be greater than the

Card 2/4

105-58-3-1/31

A Method for the Calculation of the Operation Modes of Subsynynchronous Motors With Compound Excitation

subsynynchronous one) e.g. $s_0 = 10\%$ and more, i.e. if the duration of synchronization is correspondingly longer. The experiments of an accurate analysis of the synchronization process of a synchronous machine lead to very complicated nonlinear equations. However, a rather accurate solution for most cases in practice can be obtained if the components of the free currents and moments are neglected and the electromagnetic moments during starting are considered as functions of θ and $d\theta/dt$. The equation (21) is derived for the slip s and it is shown that the synchronization is guaranteed if s becomes equal to zero in the positive synchronous moment. The equation (26) shows that the mean asynchronous moment can be assumed the smaller, the longer the duration of the synchronization process is. The possibility of synchronizing a motor is shown by an example. A checking of the computation mode given here showed in the experiment a complete agreement of the results. There are 7 figures and 7 references, 4 of which are Soviet.

Card 3/4

POSTNIKOV, I.M., doktor tekhn.nauk, prof. (Kiyev)

Eddy currents in synchronous and asynchronous machines with
solid rotors. Elektrichestvo no.10:7-14 0 '58. (MIRA 12:1)
(Electric machinery) (Electric currents, Eddy)

SOV/110-59-6-20/24
AUTHOR: Postnikov, I.M., Professor, Doctor of Technical Sciences
TITLE: Letter to the Editor (Pis'mo v redaktsiyu)
PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 6, pp 70-71(USSR)
ABSTRACT: An article published in Vestnik elektropromyshlennosti, 1958, Nr 6, entitled "Methods of Calculating the Parameters, Surface Losses and Heating of Synchronous and Induction Machines with Solid Rotors" includes expressions for the parameters of the rotors. A further development of the question is given in this letter. Two errors in formulae in the original article are pointed out and corrected.

Card 1/1

L 10230-66

ACC NR: AP6002411

SOURCE CODE: UR/0105/64/000/010/0087/0088

AUTHOR: Greben', I. I.; Iyerusalimov, M. Ye.; Kondra, B. N.; Nesterenko, A. D.;
Pavlov, V. M.; Postnikov, I. M.; Kholmiskiy, V. G.; Chuzhenko, I. M.

ORG: none

TITLE: Professor I. K. Fedchenko (60th birthday and 35th anniversary of his scientific and pedagogical activity)

SOURCE: Elektrichestvo, no. 10, 1964, 87-88

TOPIC TAGS: electric engineering personnel, electric engineering

ABSTRACT: September 26, 1964 was the 60th birthday of Ivan Kirilovich Fedchenko, Doctor of Technical Sciences and Professor in Charge of the Chair "Tekhnika vy'sokikh napryazheniy" (High-voltage engineering) at the Kiev, Order of Lenin, Polytechnical Institute. His entire career was spent at this institute. He successfully defended his dissertation in 1936 and became a reader (docent). He has published more than 60 scientific papers. Between 1934 and 1940 he set up production of domestic high-voltage capacitors. Much of his activity has been devoted to capacitor problems. After the war he worked on the problem of earth conductivity and use of earth as a return in power transmission. Fedchenko took his doctorate in 1951 defending a dissertation on earth as a conductor, which was

Card 1/2

UDC: 621.3.027.3

L 10230-66

ACC NR: AP6002411

later published as the monograph "Teoriya zemlyanogo prevoda" (Theory of earth as a conductor). He has worked extensively on insulations. His most recent work is on electric arcs. For his achievements Fedchenko holds two orders of the Red Banner of Labor, in addition to several military awards. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none /

Cord 2/12

POSTNIKOV, I.M., doktor tekhn.nauk, prof. (Kiyev); NIZHNIK, L.P., kand.fiz.-
matem.nauk (Kiyev); BEREZOVSKIY, A.A., kand.fiz.-matem.nauk (Kiyev);
KRAVCHENKO, A.N., inzh. (Kiyev)

Calculation of a traveling electromagnetic field in a lamellar
conductive medium. Elektrichestvo no.9:1-7 S '65.

(MIRA 18:10)

BORISENKO, A.I., kand.tekhn.nauk; POSTNIKOV, I.M., doktor tekhn.nauk, prof.;
SCHASTLIVYY, G.G., kand.tekhn.nauk; YAKOVLEV, A.I., inzh.

Study of the heat emission of electrical machines with medium power
ratings. Elektrotekhnika 36 no.10:3-7 0 '65.

(MIRA 18:10)

RUBINSHTEYN, R.H.; POSTNIKOV, I.V.

Diffusion under nonlinear boundary conditions. Zav.lab. 31
no.4:444-450 '65. (MIRA 18:12)

SECHEGOLEV, German Mikhaylovich; POSTNIKOV, I.M., doktor tekhn.
nauk, prof., otv. red.; SPIVAK, S.I., red.

[Thermodynamic analysis of high-temperature open cycles]
Termodinamicheskii analiz vysokotemperaturnykh razom-
knutykh tsiklov. Kiev, Naukova dumka, 1964. 61 p.
(MIRA 18:2)

GREBEN', I.I.; IYERUSALIMOV, M.Ye.; KONDRÄ, B.N.; NESTERENKO, A.D.;
PAVLOV, V.M.; POSTNIKOV, I.M.; KHOLMSKIY, V.G.; CHIZHENKO, I.M.

Ivan Kirillovich Fedchenko, 1904-; on his 60th birthday and the
35th anniversary of his theoretical and educational work.
Elektrichestvo no.10:87-88 O '64. (MIRA 17:12)

BUDNITSKIY, A.B.; VENIKOV, V.A.; GIZILA, Ye.P.; GREHEN', I.I.;
IYERUSALIMOV, M.Ye.; KALNIBOLOTSKIY, M.L.; KONDRA, B.N.;
LOYEV, Ye.G.; NESTERENKO, A.D.; PAVLOV, V.M.; POSTNIKOV, I.M.;
POHEGAYLO, K.M.; RADCHENKO, L.A.; SVECHNIKOV, L.V.; SYROMYATNIKOV,
I.A.; FEDOSEYEV, A.M.; FEDCHENKO, I.K.; KHODOROV, S.Ye.;
CHIZHENKO, I.M.; TSUKERNIK, L.V.

Professor Vasilii Grigor'evich, 1904 -; on his 60th birthday.
Elektrichestvo no.4:93-94 Ap '64. (MIRA 17:4)

ADAMENKO, Aleksey Ivanovich; POSTNIKOV, I.M., doktor tekhn. nauk,
otv. red.; TITOVA, N.M., red.

[Motors for single-phase three-wire networks] Dvigateli dlia
odnofaznykh trekhprovodnykh setei. Kiev, Izd-vo AN USSR,
1963. 124 p. (MIRA 17:4)

POSTNIKOV, I.M., doktor tekhn.nauk, prof.

Problem of the direct conversion of thermal energy to electric power. Izv. vys. ucheb. zav.; energ. 6 no.3:1-13 Mr '63.

(MIRA 16:5)

1. Institut elektrotehniki AN UkrSSR.
(Thermoelectricity) (Fuel cells) (Magnetohydrodynamics)

POSTNIKOV, I.M. (Kiyev); RALLE, V.V. (Kiyev)

Determination of the parameters of a parametric (reactive) motor.

Elektrichestvo no.3:57-60 Mr '63.

(MIRA 16:4)

(Electric motors)

POSTNIKOV, Ivan Matveyevich; DANIL'CHUK, G., red.; MATUSEVICH, S., tekhn.
red.

[Designing of electric machinery] Proektirovanie elektricheskikh
mashin, Kiev, Gos.izd-vo tekhn. lit-ry USSR, 1960. 910 p.
(MIRA 14:6)

(Electric machinery—Design and construction)

ADAMENKO, Aleksey Ivanovich; POSTNIKOV, I.M., doktor tekhn. nauk,
otv. red.; REMENNIK, T.K., red. izd-va; MATVEYCHUK, A.A.,
tekhn. red.

[Asymmetrical asynchronous machines] Nesimmetrichnye asin-
khronnye mashiny. Kiev, izd-vo Akad. nauk Ukr.SSR, 1962. 211 p.
(MIRA 15:9)

(Electric machinery) (Electric motors, Induction)

POSTNIKOV, I.M., doktor tekhn.nauk, prof. (Kiyev)

Stray torques and losses due to higher harmonics of armature reaction of asynchronous motors with squirrel-cage rotors. Elektrichestvo no.7:39-49 J1 '63. (MIRA 16:9)

(Electric motors, Induction)

POSTNIKOV, I.M., doktor tekhn.nauk, prof.; SCHASTLIVYY, G.G., inzh.

Thermal design of enclosed AO-type asynchronous motors. Vest.
elektroprom. 32 no.3:43-50 Mr '61. (MIRA 15:6)
(Electric motors, Induction)

PEVZNER, O.B., kand.tekhn.nauk; POSTNIKOV, I.M., doktor tekhn.nauk, prof.

Equivalent circuit and circle diagram for a reactive synchronous machine. Elektrichestvo no.5:74-77 My '61.' (MIRA 14:9)
(Electric motors, Synchronous)

POSTNIKOV, I.M., doktor tekhn.nauk, prof (Kiyev)

Efficiency losses and dimensions of electric machinery and electric
transformers. Elektrichestvo no.9:2-9 S '61. (MIRA 14:9)
(Electric machinery) (Electric transformers)

PHASE I MCCA EXPOSITIONS 200/2293

Nauchno-tekhnicheskaya konferentsiya po razvitiyu proizvoditel'nykh sil Khark'kovskogo ekonomicheskogo administrativnogo rayona, 1963.

Voprosy Mashinostroyeniya; trudy konferentsii... (Problems of Machine Building; Transactions of the Scientific Technological Conference on the Development of Productive Forces of the Khark'kov Economic Administrative Region) no. 3. Kiev, Izd-vo AN UkrSSR, 1966. 162 p. 1,100 copies printed.

Sponsoring Agency: Khark'kovskiy gos. univ. Sovet po nauchnemu proizvoditel'nykh sil Khark'kovskogo ekonomicheskogo administrativnogo rayona, 1963.

Editorial Board: Resp. Ed.: A.A. Vasilenko, Academician of the Academy of Sciences UkrSSR; A.A. Gerasimov, Corresponding Member, Academy of Sciences UkrSSR; I.Y. Poshakov, Doctor of Technical Sciences; S.M. Kuznetsov, A.I. Altsenko, Candidate of Technical Sciences; G.M. Davydov, Candidate of Technical Sciences; Ed. of Publishing House: S.D. Leply; Tech. Ed.: R.A. Bunty.

PURPOSE: This collection of articles is intended for scientific personnel, engineers, technicians, sovnetkhov workers, and planning organizations.

COVERAGE: The articles deal with problems in technology and techniques in the manufacture of engines, hydraulic turbines, diesel locomotives, tractors, combines, electrical machinery, etc. Considerable attention is given to the following: the development of new types of equipment used for automation in the coal industry; equipment development for the production and use of rectifiers; the development of new acceleration methods for measuring and controlling heat-engineering parameters; and the introduction of advanced methods into foundry and die forging. No personalities are mentioned. References accompany some of the articles. There are 20 references: 16 Soviet, 2 German, 1 French, and 1 English.

Glazov, M.M. [Doctor of Technical Sciences at Khark'kov Polytechnical Institute]. The Present State of and Outlook for the Development of Engine Building 44

Koval', I.A. [Chief Designer at the GSEB (Gosudarstvennoye Spetsial'noye Konstruktsionnoye Byuro Dvigatel'ov - State Special Engine-Design Bureau) in the "Serp i Molot" Plant]. Work Done by the "Serp i Molot" Plant in Khark'kov and by Its GSEB in the Design of New Tractor and Combine Engines 61

Kashuba, B.P. [Chief Designer at the Khark'kovskiy traktorovyy zavod (Khark'kov Tractor Plant)]. The All-Purpose T-75 Caterpillar Tractor 68

Garf, M.E., and O.Yu. Krasnenko [Candidates of Technical Sciences at the Institut litoyego proizvedeniya IN UkrSSR (Institute of Foundry AS UkrSSR)]. Investigating the Dynamic Strength of Certain Constructions in the Tractor and Transportation Industries 75

Pozniakov, I.M. [Doctor of Technical Sciences at the Institut elektromekhaniki IN UkrSSR (Electromechanical Institute AS UkrSSR)]. Basic Prospects for Research in the Field of Design of New Types of Electric Machinery 87

Perel'muter, M.M. [Candidate of Technical Sciences at the Khark'kov Branch of "Yuzhpromelektroproekt"]. Prospects for the Development of Electric Drives 92

Problems of Machine Building (Cont.) 200/2293
Zil'berman, B.Z. [Candidate of Technical Sciences at the Khark'kov Branch of "Yuzhpromelektroproekt"]. The Use of Computers for Planning Production Processes 94

Sorochenko, V.Ye. [Chief Equipment Designer at the Khark'kovskiy elektromekhanicheskii zavod (Khark'kov Electromechanical Plant)]. Trends in the Development of Electrical-Apparatus Manufacture at the Khark'kov Electromechanical Plant 99

Tanchuk, G.M. [Candidate of Technical Sciences at Zavod "Krasnyy Metallist" (The Krasnyy Metallist Plant)]. Equipment for Automation in Coal Mining 105

Ogan'yun, Ya.P. [Engineer at the Khark'kov Branch of "Yuzhpromelektroproekt"]. The Use of Mechanical Rectifiers in Electrolytic Processes 111

Lomakin, V.P. [Engineer at the Khark'kov Electromechanical Plant]. The Manufacture of Mechanical Rectifiers 127

POSTNIKOV, I.M.

Concerning the design of a pulse generator. Trudy LPI no. 20:26-
98 '60. (MIRA 14:2)

(Electric generators)

POSTNIKOV, Ivan Matveyevich; KIM, K.I., red.; ZHITNIKOVA, O.S.,
tekhn.red.

[Electric machinery; brief course] Elektricheskie mashiny;
Kratkii kurs. Moskva, Gos.energ.izd-vo, 1960. 324 p.

(MIRA 14:4)

(Electric machinery)

VASILENKO, A.A., akademik, otv.red.; GORSHKOV, A.A., red.; POSTNIKOV,
I.M., doktor tekhn.nauk, red.; KUTSENKO, S.M., doktor tekhn.nauk,
red.; ADAMENKO, A.I., kand.tekhn.nauk, red.; DAVYDOV, G.M.,
kand.ekonom.nauk, red.; LEPKIY, S.D., red.izd-va; BUNII, R.A.,
tekhn.red.

[Manufacture of machinery; proceedings of a conference on the
development of productive forces of the Kharkov Economic Region]
Voprosy mashinostroeniia; trudy nauchno-tekhnicheskoi konferentsii
po razvitiu proizvoditel'nykh sil Khar'kovskogo ekonomicheskogo
raiona. Kiev. No.3. 1960. 182 p. (MIRA 14:3)

1. Akademiya nauk USSR, Kiyev. Sovet po izucheniiu proizvodi-
tel'nykh sil Ukrainskoy SSR. 2. AN USSR (for Vasilenko). 3. Chlen-
korrespondent AN USSR (for Gorshkov).
(Kharkov Economic Region--Industries)

POSTNIKOV, I.M., doktor tekhn.nauk, prof. (Kiyev)

Current hodograph and universal equivalent circuit of synchronous salient-pole and parametric machines. Elektrichestvo no.8:79-81 Ag '60. (MIRA 13:8)
(Electric machinery, Synchronous)

ADAMENKO, Aleksey Ivanovich; POSTNIKOV, I.M., prof., doktor tekhn.nauk, otv.
red.; REZENIK, T.K., red.izd-va; KADASHEVICH, O.A., tekhn.red.

[Single-phase capacitor motors] Odnofaznye kondensatornye dvigateli.
Kiev, Izd-vo Akad.nauk USSR, 1960. 247 p. (MIRA 13:5)
(Electric motors, Induction)

SOV/143-59-1-11/17

9(2)

AUTHOR: Postnikov, I.M., Doctor of Technical Sciences, Professor,
and Novikov, A.V., Candidate of Technical Sciences

TITLE: Determination of Economical Dimensions for Transformers
(Opredeleniye ekonomicheskikh razmerov v transformatorakh)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Energetika,
1959, Nr 1, pp 75-82 (USSR)

ABSTRACT: Economical dimensions of transformers are such dimensions
as ensure their minimum manufacturing and operational
cost, considering the specified electrical requirements
and the established electrical, mechanical and thermal
standards. To simplify the problem, the authors investi-
gate only a few of the numerous cost-determining factors
and conditions. Upon referring to the power and cost
equations, permitting finding of geometrical factors that
correspond to the minimum cost of the construction

$$\alpha = \frac{l_s}{D} \text{ and } \lambda = \frac{l_0}{2D}$$

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where l_0 = width of window, l_s = height of core and D =

SOV/143-59-1-11/17

Determination of Economical Dimensions for Transformers

diameter of core, the authors go on to investigate the influence on the cost of a transformer of the total copper and core losses $\Sigma P\%$ and their ratio

$$\xi = \frac{P_{Cu}}{P_{Fe}}$$

at any specified short-circuit voltage U_k and of the short-circuit voltage U_k at any specified $\Sigma P\%$ and ξ . The computations described in the article show in particular that (a) the minimum cost is arrived at with $\xi = 3$ to 4 and (b) the cost of transformer is higher with U_k reduced. There exist certain optimum values $\Sigma P\%$ and ξ_k that ensure the minimum manufacturing and operating cost of transformers, and their determination is an important economical task. There are 2 diagrams and 4 Soviet references.

Card 2/3

VOYTEKH, Aleksandr Arsen'yevich; POSTNIKOV, I.M., doktor tekhn.
nauk, prof., otv. red.; YEVSEYENKO-MIKHAYURENKO, I.V.,
red.

[Multiple-speed single-phase capacitor motors] Mnogosko-
roshnye odnofaznye kondensatornye dvigateli. Kiev, Naukova
dumka, 1964. 206 p. (MIRA 17:9)

8 (0)

AUTHORS:

Greben', I. I., Kalnibolotskiy, M. L., SOV/105-59-6-23/28
Nesterenko, A. D., Postnikov, I. M.,
Fedchenko, I. K., Kholmanskiy, V. G., Chizhenko, I. M., and Others

TITLE:

Professor N. N. Vasil'yev (Professor N. N. Vasil'yev). On His
70-th Birthday (K 70-letiyu so dnya rozhdeniya)

PERIODICAL:

Elektrichestvo, 1959, Nr 6, p 92 (USSR)

ABSTRACT:

Nikolay Nikolayevich Vasil'yev began his career in 1914, after having completed his studies at the Petrogradskiy politekhnicheskii institut (Petrograd Polytechnic Institute), as head of the electric workshop of the Central Workshop of the South-Western Railroad in Kiyev. From 1927 to 1930 he also taught at the Kiyevskiy politekhnicheskii institut (Kiyev Polytechnic Institute). In 1930 he was appointed Docent in ordinary and in 1931 Professor at the Chair of Electrical Machines at the same Institute. In 1937 he was appointed head of the newly established Chair for the Electrification of Industrial Enterprises. He installed a laboratory with this chair. During the second world war he was evacuated to Tashkent with the entire Institute. After his return he kept the same chair. He wrote more than 20 scientific publications, and constantly endeavored to

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Professor N. N. Vasil'yev. On His 70-th Birthday

SOV/105-59-6-23/28

strengthen the relations between the chair and industry. He was awarded the Lenin Order, the Order of the Red Banner of Labor and the medal "For Heroic Work in the Great Patriotic War". There is 1 figure.

Card 2/2

8 (0)

AUTHORS:

Vasil'yev, N. N., Greben', I. I., SOV/105-59-6-25/28
Postnikov, I. M., Fedchenko, I. K., Kholmskiy, V. G.,
Chizhenko, I. M. and Others

TITLE:

Corresponding Member of the AS UkrSSR A. D. Nesterenko
(Chlen-korr. AN USSR A. D. Nesterenko)
On His 60-th Birthday (K 60-letiyu so dnya rozhdeniya)

PERIODICAL:

Elektrichestvo, 1959, Nr 6, p 94 (USSR)

ABSTRACT:

Anatoliy Dmitriyevich Nesterenko was born on April 6, 1899 in the village of Blagodatnoye in the Odessa oblast'. In 1926 he completed his studies at the Faculty of Electrical Engineering at the Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnic Institute). He then began his scientific and pedagogical career. With his collaboration, workshops were installed at the same institute for the production of electrical measurement apparatus, which later on developed into a factory. From 1936 to 1938 he was Head of the Laboratory of Electrical Measurements of the Energeticheskii institut AN SSSR (Institute of Power Engineering at the Academy of Sciences, USSR). In 1937 he was promoted Doctor, and in 1938

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Corresponding Member of the AS UkrSSR
A. D. Nesterenko. On His 60-th Birthday

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he was appointed Professor of the special field of electrical measurements. From 1938 to 1941 he was chief designer of a factory for electrical apparatus and from 1942 to 1944 he was Professor at the Omskiy mashinostroitel'nyy institut (Omsk Institute of Mechanical Engineering). After the War he collaborated in the elaboration of the five years' plan and worked as a professor at the Kiyevskiy politekhnicheskii institut (Kiyev Polytechnic Institute). Due to his initiative a chair of electrical apparatus building was established there. At the same time he was Head of the Department of Automation of the Institut elektrotekhniki AN USSR (Institute of Electrical Engineering of the AS UkrSSR). In 1951 he became a Corresponding Member of the AS UkrSSR and in 1952 he was elected Head of the Institut elektrotekhniki (Institute of Electrical Engineering). He published 50 papers. In his works he primarily deals with a classification of measuring methods and of instruments, with the power measurement in single- and multi-phase circuits, with the theory of phasometers and of compensation and differential bridge circuits, and the

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Corresponding Member of the AS UkrSSR
A. D. Nesterenko. On His 60-th Birthday

SOV/105-59-6-25/28

inspection of current- and voltage transformers. He has made more than 15 inventions and technical improvements. In 1951 he was awarded the Stalin Prize. He bears the Red Banner of Labor Order and several medals. There is 1 figure.

Card 3/3

AUTHOR: Postnikov, I. M., Professor, Doctor of Technical Sciences (Kiyev) SOV/105-58-10-2/28

TITLE: Eddy Currents in Synchronous and **Induction** Machines With Massive Rotors (Vikhrevyye toki v sinkhronnykh i ~~asinkhronnykh~~ mashinakh s massivnym rotorom)

PERIODICAL: Elektrichestvo, 1958, Nr 10, pp 7 - 14 (USSR)

ABSTRACT: In this paper a method of computing **eddy current power losses is explained.** This method takes into consideration all factors exerting an influence upon these losses. It can also be applied to the computation of electromagnetic clutches, brakes and high-frequency heating equipments. Firstly the phenomena are investigated, which occur when a sinusoidal wave of the magnetization force of the armature reaction rotates with respect to the rotor surface, the wave having the harmonic index ν_1 . The final result is obtained by summing up all harmonics, assuming the permissibility of superimposing the results obtained from the individual harmonics. A sample problem is computed in

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Eddy Currents in Synchronous and Induction Machines SOV/105-58-10-2/28
With Massive Rotors

the attachment. There are 5 figures and 8 references,
6 of which are Soviet.

SUBMITTED: April 17, 1958

Card 2/2

110-58-6-1/22

AUTHORS: Postnikov, I.M., Doctor of Technical Sciences, Pavlov, V.M.,
Candidate of Technical Sciences and Bertok, F.A., Candidate
of Technical Sciences

TITLE: Methods of Calculating the Parameters, Surface Losses and
Heating of Synchronous and Asynchronous Machines with
Solid Rotors (Metody rascheta parametrov, poverkhnostnykh
poter' i nagreva sinkhronnykh i asinkhronnykh mashin s
massivnym rotorom)

PERIODICAL: Vestnik Elektromyshlennosti, 1958, Nr 6,
pp 1 - 8 (USSR).

ABSTRACT: Although much work has been done on the calculation of
the properties of solid-rotor machines, some points are still
obscure, notably regarding the dependence of magnetic permea-
bility and "depth of penetration" on current and slip. The
authors find that the calculation should be made in the form
used in calculating the equivalent circuits of synchronous
machines and squirrel-cage motors. It is unwise to introduce
a large number of coefficients in an attempt to refine the
result; rather one should start from the least number of
coefficients, each with a simple physical meaning. Special
features of pole construction, such as the presence of shading
Card1/4 rings, are best dealt with by empirical coefficients.

110-58-6-1/22

Methods of Calculating the Parameters, Surface Losses and Heating
of Synchronous and Asynchronous machines with solid rotors.

The methods of calculation for a variety of machines are then described. A machine with a smooth rotor without windings is first considered, starting from the usual equivalent circuit of an induction motor with variable rotor parameters, which is shown in Figure 1. Rotor resistance and reactance parameters referred to the stator are derived and an expression is given for the depth of penetration. The main difficulty is to determine the magnetic permeability on the rotor surface; a nominal value is derived, based on the depth of penetration. A numerical calculation is made of the rotor reactance in a particular case.

The next calculations deal with hysteresis loss, change in permeability and the shape of the dynamic magnetic characteristic. Expressions are written for the rotor resistance and reactance as functions of slip, the corresponding curves being plotted in Figure 2; the ratio of resistance to reactance as a function of slip is plotted in Figure 3. The curves of rotor resistance and reactance as function of current at 100% slip appear in Figure 4. Finally, a numerical example is worked.

Card2/4 If the rotor surface is clad with copper or aluminium a

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correction must be made to the equivalent circuit because, in effect, the rotor impedance is reduced. The starting characteristics of a smooth-rotor machine are then calculated and test characteristics for a particular small motor are given in Figure 7. A method of calculating resistance and reactance from test data is given.

Calculations are then made of the parameters of the solid poles of salient-pole synchronous machines. Modified coefficients are used in the formulae derived for rotor resistances and reactance. Further considerations are that the geometry is different in the longitudinal- and cross-axes; there are dampers and a field winding and the rotor may be magnetized by d.c. The modified equivalent circuit and corresponding resistance and reactance formulae are given. Calculations are then made of the internal losses and surface heating of solid poles when starting an induction motor; during prolonged asynchronous running; during prolonged asymmetrical loading and during synchronous running on higher and tooth harmonics of the stator. Numerical examples are given. There are 7 figs. and 9 Soviet refs.

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